



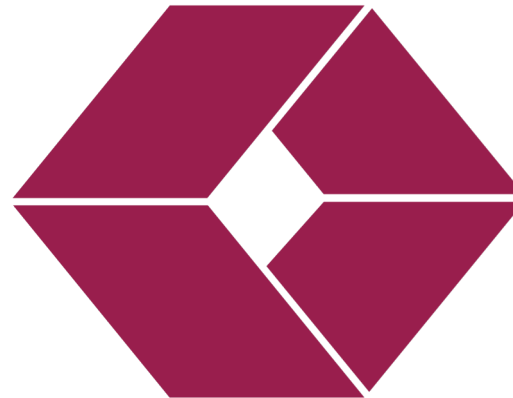
We are cideon engineering



5 sites in Germany, **one site** in Switzerland
and **one site** in Spain

Over **30 years'** experience
in the rail vehicle sector

Certified to DIN ISO 9001, 14001, DIN
EN 15085-2 and DIN 6701-2, EN
5012x/EN 50657, ISTQB, IPMA, ECM



Member of VDB, VPI, Rail.S, DIN FSF,
Swissrail, Litra, TST and VöV

Accredited **assessors** with the EBA/BAV
Inspectors for NoBos and DeBos

130 employees

€15 million annual turnover

We are cideon engineering

30 years' experience in the rail industry



1992
FOUNDING OF
IKB
Engineering and
DesignOffice Ltd

2002
NAME CHANGE
to CIDEON
Engineering
GmbH

2008
OPENING
Basel&Leipzig
branches

2016
INTEGRATION
into CRCCE

2023
CERTIFICATE
ECM2

2026
EXTENSION
Chemnitz site
with a production
hall

1995
certification
to ISO 9001

2001
ACCREDITATION
as an assessor
& welding specialist
company

2003
OPENING
Chemnitz branch

2013
INTEGRATION
into the
FriedhelmLoh
Group

2018
PORTFOLIO
EXPANSION
to include the
Electrical &
Software division

2024
CERTIFICATE
ISO 14001
EcoVadis

1990



Consulting

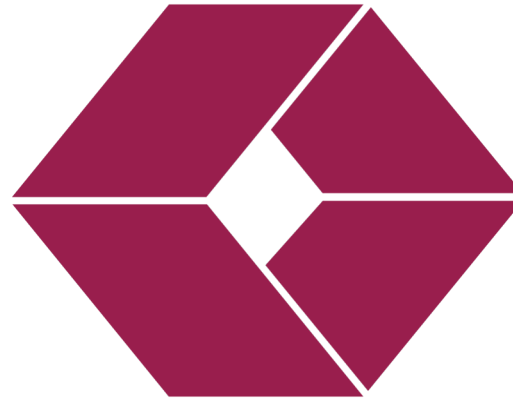
Your problems are our business. We find practical solutions that work – from the start of the tender process right through to the end of the approval process.

Electrical Systems & Software

We understand the technologies that will shape the industry's future. Benefit from our expertise in innovative propulsion systems, TCMS and ETCS.

Mechanics

Rail vehicles are highly complex systems. Our expertise covers the entire spectrum of development.



On-Site

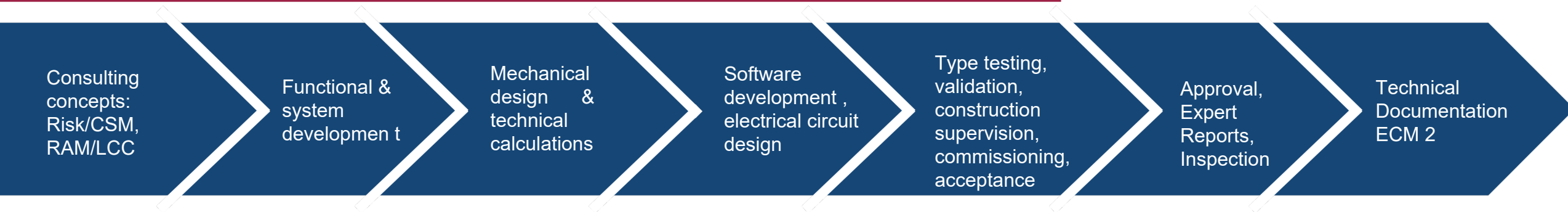
Flexible solutions for your challenges. We support you with our team's expertise and the methods that suit you best.



making mobility happen

The rail sector is undergoing numerous technical innovations: international control systems, modular freight wagons, new energy-efficient propulsion concepts. This presents operators with new challenges. This calls for experts with experience. From concept and design right through to type approval – with our expertise, we offer a fresh perspective on your challenges.

Product lifecycle for new developments and modernisation



Our core competencies

Consulting



Keeping the train on track

Your problems are our business. We're a team of rail vehicle specialists who step in when things get tricky. We find practical solutions that work – whether it's quality assurance or type approval.

Services

- System Engineering & Project Planning
- Tender support
- Expert reports & inspections
- Approval support



Our core competencies

Consulting



System Engineering & Project Planning

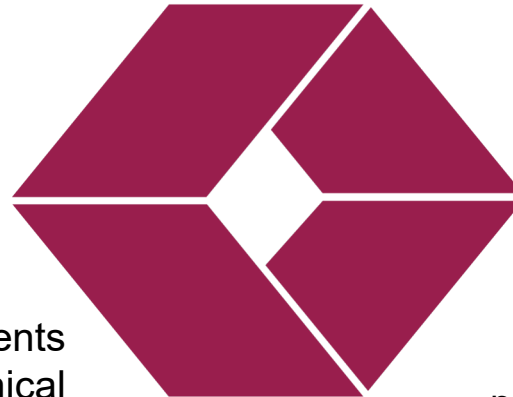
We handle system definition and vehicle layout, as well as requirements management, technical project management and supplier management.

Expert Reports &

Inspections We have independent experts and inspectors for NoBos and Debos. This also includes accident assessments and acceptance inspections.

Tender Support

Whether it's a specification or a requirements document – we formulate the technical requirements and performance parameters for you.



Type-approval support

Our authorised assessors support you through a peer-review process in preparing documentation for the relevant authorities.

Our core competencies

Mechanics



Holistic approach

We develop vehicles and alternative transport systems for you. Our expertise covers the entire spectrum of development, including MKS, reverse engineering using 3D scanning and 3D printing.

Services

- Project planning
- Design
- Calculation & Verification
- Documentation



Our certificates: DINEN ISO 9001

• DIN EN 15085-2 • DIN 6701-2

Our core competencies

Mechanics



Project planning

We keep track of the standards and regulations you need to comply with in your operations. Where required, we use these to draw up tailor-made specifications for your partners.

Calculation & Verification

We carry out calculations for rail vehicles relating to strength, derailment, braking, running safety, envelope curves and restrictions in accordance with the currently applicable standards.

Design

Using standard CAD programmes (Inventor, Catia, Creo, AutoCAD, SolidWorks), we design individual components and complete vehicles.



Documentation

We produce maintenance manuals, maintenance schedules, LCC analyses and RAMS processes to ensure the smooth, long-term operation of your trains.

Our core competencies

Electronics & Software



Pioneering Technologies

Benefit from our expertise in the fields of electrical systems and software – for functional vehicle concepts, Ethernet-based TCMS using TRDP, IT security, implementation and validation.

Specialist services

- Vehicle Design & Systems Engineering
- Electrical Systems & Circuit Diagrams
- Control Systems & Software
- Testing, Validation & Commissioning
- Energy Management
- Vehicle Diagnostics & Fault Analysis



Our certifications: EN 5012x/EN 50657 • ISTQB

Our core competencies



Vehicle Design & Systems Engineering

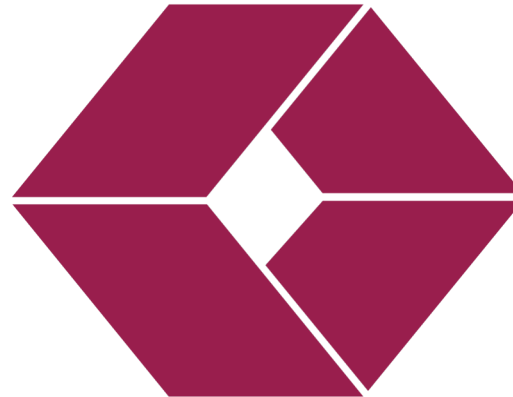
Whether it's the development of subsystems or technical support for EMC and earthing concepts: we have experts and project managers for all specialist areas.

Software

We specify, programme and test the entire control system. In doing so, we pay particular attention to safety, which we demonstrate through our standard-compliant process.

Electrical Systems & Circuit Diagrams

We provide support with the design and selection of electrical components and cables, including component library management and database maintenance, in both Zuken E³ and EPLAN P8.



Testing & Validation

We carry out testing using a multi-stage process, ranging from the software level to the vehicle level, in accordance with the V-Model development process.



Capacities & Expertise for Your Tasks

Do you need to temporarily supplement your expertise or cope with peak workloads in order to achieve your project or business objectives?

We can help with our highly qualified staff, delivering the highest standards across all the disciplines you require.

Services

- Technical Project Management & PMO
- On-site or remote engineering
- Construction supervision, commissioning & vehicle acceptance
- Maintenance planning & fleet management (ECM)



Our core competencies

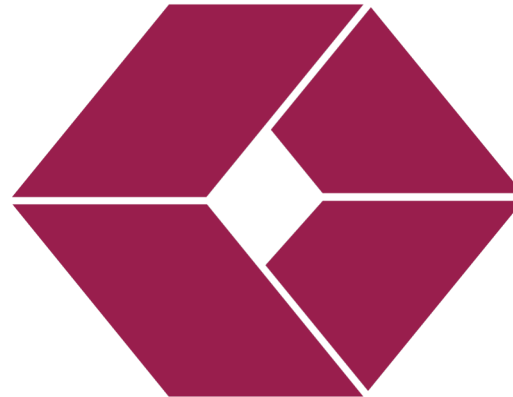


Technical Project Management & PMO

We provide the right people with the right balance of contextual, social and technical skills.

Construction supervision, commissioning & vehicle acceptance

Whether it's a prototype, testing or quality control, our experts support your vehicles in Germany and across Europe.



On-site or remote engineering

We bring our staff's system expertise to your projects in a straightforward and flexible manner.

Maintenance Development & Fleet Management

We continue to develop your vehicles even whilst they are in operation and work with you to optimise your operational processes.

Our client list

The companies that place their trust in us



ALSTOM

ARS
ALTMANN

BERNMOBIL
ZUSAMMEN UNTERWEGS

 **中国中车**
CRRC

DB

 **GLEISBAUMECHANIK**

GMEINDER
LOKOMOTIVEN

HARSCO



HeiterBlick


*matterhorn
gotthard bahn*

 **NETINERA**
EIN UNTERNEHMEN DER FS-GRUPPE

 **SBB CFF FFS**

SIEMENS

 **SÜDOSTBAHN**

STADLER


TUV NORD

vossloh

 **VTG**

 **WINDHOFF**

 **Die Zentralbahn.**

Plasser & Theurer

www.cideon-engineering.com

 **ÖBB**

Now it's your turn!

We look forward to breaking new ground with you.



Get in touch!

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